

## Abstract

An injection nozzle (1) is proposed in which the nozzle needle (5) has an annular groove (8) in the vicinity of the transition (7) between the blind hole (2) and the nozzle needle seat (4). In seat hole injection nozzles, the annular groove (8) is disposed in the vicinity of the injection orifice(s) (3). The annular groove (8) reduces the tolerance of the flow resistance of the injection nozzle (1) with a partial stroke of the nozzle needle (5) and thus permits a more precise measurement of the fuel quantity injected. (Fig. 1)